

REMARKS/ARGUMENTS

Reconsideration of this patent application is respectfully requested in view of the foregoing amendments, and the following remarks. Claim 5 is in the application and is newly added. Claims 1-4 have been canceled. No new matter has been added.

Applicant has written new claim 5, which includes the elements of original claims 1 and 2, and which further clarifies the invention.

The Examiner has rejected claims 1-4 under 35 U.S.C. 103 as being unpatentable over Avezou in view of Ruhle and Dunn. Applicant respectfully traverses.

In the present invention, the ring insert 10 consists of NiResist, and the ring insert with the cooling channel is poured into the ring element 6. After this, the ring element is welded together with the piston base body 4. The ring element and the recess both have rectangular cross sections, so that the ring element fits the shape of the recess. These features are not

known from any of the cited references.

The piston according to claim 5 has the advantage that a piston manufactured in a simple and inexpensive manner, consisting mainly of forged and therewith lock-fast aluminum, can be equipped with a ring insert which is cooled by a welded on cooling channel. Avezou also shows a cooled ring carrier, but here, the cooling channel is manufactured in such a way that respective recesses must be molded into the ring element and the piston base body. These are relatively complicated and expensive process steps.

Dunn discloses the manufacture of a poured piston with ring carrier which has a much lower wearability in comparison with a welded piston, and a much lower wear resistance. Finally, Ruhle does not disclose that the ring insert consists of NiResist. Combining these three references would not lead to the present invention because, even combined, they lack the features of new claim 5.

Accordingly, Applicant submits that claim 5 is patentable over the cited references, taken either singly or in combination. Early allowance of the amended claims is respectfully requested.

Respectfully submitted,  
Rainer SCHARP

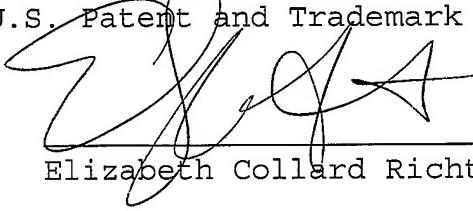


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I hereby certify that this correspondence is being filed electronically in the U.S. Patent and Trademark Office on May 18, 2009.



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